

Mag Grid Sectional Parabolic Antennas

For 1.7–2.1, 2.1–2.7 and 2.4–2.5 GHz

The Mag Grid Antenna series offers a commercial grade product at an exceptionally competitive price.

The die cast reflector is fabricated using an automated injection molding process which ensures consistency in performance. The high-grade magnesium alloy material is lightweight, does not rust, and memorizes the antenna's parabolic curve to maintain its shape over time. The result is the only low cost terrestrial microwave antenna sufficiently durable to survive changing climate conditions.

The patented grid reflector design provides field reliability and ease of handling and installation. No secondary coating is required to prevent rust and corrosion. Breakdown packaging saves freight costs, and optional factory assembly is available.

Mag Grid series antenna products are also available with an industrial grade mounting option. This option features a heavier gauge L-bracket, mast clamp, and u-bolt with mounting centers compatible for pipes of up to 2.5 inches in diameter. The L-bracket attaches using 4 previously unoccupied holes in a thicker section of the reflector. These holes are located farther from the center of the assembled unit, spreading forces over a wider range of reflector space. There are no changes to hardware style or assembly and installation procedures. The result is an antenna very suitable for higher elevation installations and tower mounts without the cost and complexity of traditional broadcast tower antenna mounts.

Features

- Commercial grade durability
- Lower production, shipping, and handling costs
- Lightweight, durable materials
- RG8 pigtail – 24" extension
- Up to 60° tilt adjust



The low cost antenna durable enough to withstand changing climates



Specifications for Mag Grid Sectional Parabolic Antennas

Electrical

	18T-1900/2127/2400	26T-1900/2127/2400
Gain, dBi	14/16/17 ±1	21/24/23 ±1
Polarization isolation, dB	20	24
Typical side lobe suppression, dB	8	20
Beamwidth		
-3 dB, degree	14	14/7.5/7.5
-10 dB, degree	35	24/11/11
Front/back ratio, dB	>20	>30
Impedance, ohm	50	50
VSWR typical	1.5:1	1.5:1
Pigtail extension, in (m)	24" RG8 (0.61)	24" RG8 (0.61)

Mechanical

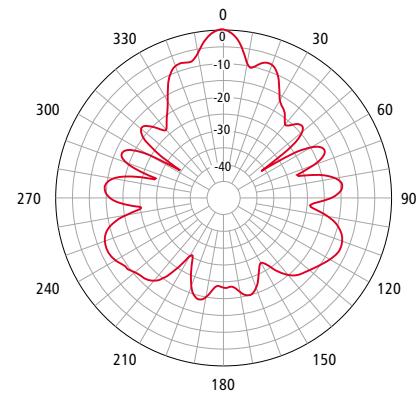
	18T-1900/2127/2400	26T-1900/2127/2400
Output connector*	"N" type male/female	"N" type male/female
Mounting O.D. pipe		
Standard, in (mm)	1-2 (25-51)	1-2 (25-51)
Industrial, in (mm)	—	1.25-2.5 (0.028 x 0.063)
Vertical tilt, degree	0-60	0-60
Wind load		
Operational, mph, lb (kg)	75, 25 (11.34)	75, 63.8 (28.94)
Survivable, mph, lb (kg)	140, 77.9 (35.33)	140, 199.5 (90.49)
Reflector type	Parabolic grid	Parabolic grid
Reflector material	Cast magnesium alloy	Cast magnesium alloy
Dimensions, in (mm)	16 x 20 x 15 (406 x 510 x 380)	23.5 x 39.25 x 15 (600 x 997 x 380)
Weight		
Antenna, lb (kg)	1.8 (0.81)	4.6 (2.07)
Standard mount, lb (kg)	0.06 (0.027)	0.09 (0.041)
Industrial mount, lb (kg)	—	1.5 (0.675)

* N male connector standard; N female available by adding "F" (i.e. 26T-2400F-1).

** Robust 1.5"-2.5" O.D. version available. Contact factory.

Ordering Information

Frequency Band MHz	Gain dBi	Single Pack Type Number	Bulk Pack Type Number
1700-2100	14	18T-1900-1	18T-1900-10 (10 per)
1700-2100	21	26T-1900-1	26T-1900-6 (6 per)
2100-2700	16	18T-2127-1	18T-2127-10 (10 per)
2100-2700	24	26T-2127-1	26T-2127-6 (6 per)
2400-2500	17	18T-2400-1	18T-2400-10 (10 per)
2400-2500	23	26T-2400-1	26T-2400-6 (6 per)



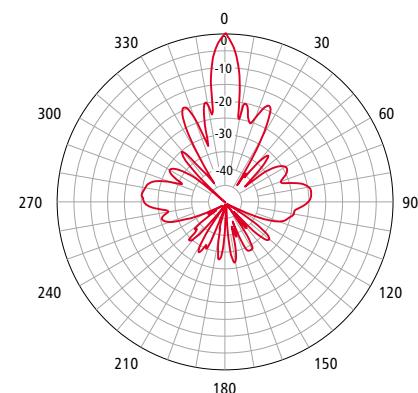
18T-2400-x

Gain = 17.73 dBi

Frequency = 2.5 GHz

10 dB BW = 33.7°

3 dB BW = 12°



26T-2400-x

Gain = 23.91 dBi

Frequency = 2.5 GHz

10 dB BW = 11.6°

3 dB BW = 5.9°



Connecting the Wireless World

Andrew Corporation
10500 W. 153rd Street
Orland Park, IL 60462 USA

Customer Support Center

From North America:
Telephone: 1-800-255-1479
Fax: 1-800-349-5444
International:
Telephone: +1-708-873-2307
Fax: +1-708-349-5444

Internet

www.andrew.com

Fax-On-Demand
From North America:
1-800-861-1700
International:
+1-708-873-3614

All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

Bulletin 10437 (Rev E 11/02) Copyright © 2002 Andrew Corporation, Orland Park, IL 60462 USA

Printed in USA